

HP DYSPLASIA/CANCER SCREEN

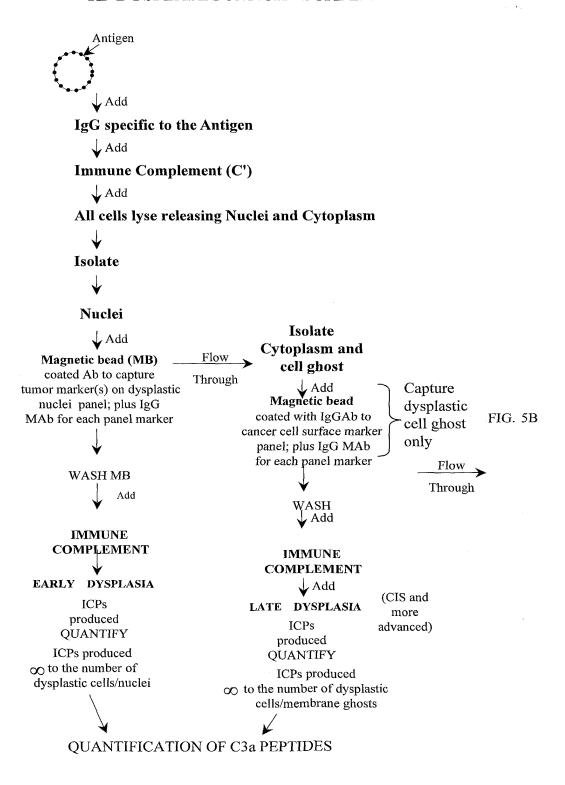


Figure 5A

Collect Cytoplasm (normal and dysplastic cells) **↓** Add Proteinase K Protein treatment denatured or SDS / KCL precipitated and removed DNA in solution RNA 🗸 Perform DNA RP-TFO DNA RFTA mRNA RP-TFO mRNA RFTA Capture Target DNA or mRNA on Magnetic Bead ↓ Add Labeled Reporter Probe Quantify Signal

Figure 5B

CERVICAL EXFOLIATIVE CELLS (~5x106) **V** Add MB (Mab to BETA2 microglobulin) Collect Collect Flow through **V** Add Flowthrough Nucleus, Cytoplasm Immune Complement • Cytoplasm $_{ ext{Wash}} leftsquare$ -**√** Add **V** Add Discard Supernate MB (Mab to nuclear MB(Mab to cytoplasmic **V** Add target proteins membrane antigens) Mab to cell surface **∀** Wash dysplasia/cancer markers **₩** Add **∀** Add **V** Add Immune Complement (CMSA) Immune Immune • (CMSA) (MACMSA) Complement blocked for lysis Complement Collect Collect Collect Flow through Flow through Flow through To MB Nuclei Assay Assay Assay **▲** Add Immune Complement • -> Discard MB/Nuclei Ghosts Collect ¥ Flow through DNA, mRNA, Nucleoplasm • **V** Add MB (POS charge molecules) DNA isolation Wash () -> Discard Flow through ✓ Heat 50°C Allow DNA to breathe **↓** Add RP-TFO Capture Molecule ▼ Dissociate DNA/Remove MB **V** Add MB (other half of affinity capture pair) -> Discard Flow through Wash → Discard Flow through Add reporter oligo with immunogenic epitope 0 ICPs produced and present Complement (MACMSA) (O) ICPs removed Collect MB Magnetic Bead ▼ Flow through Mab Monoclonal Antibody Assay MB() Magnetic Bead Coating Figure 6 Assay for C3a Peptides Assay